Appl. No. 10/662,109
Original Response dated 03/03/06
Reply to Office Action of 11/03/05
Resubmission dated 06/07/06
Reply to Communication dated 05/10/06

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of the Claims:

- (currently amended) A modified, mesophase pitch-based carbon fiber comprising from about 0.01 0.05 percent to about 1.0 percent by weight of carbon nanomaterial reinforcements.
- (original) The modified carbon fiber set forth in claim 1 comprising from about 0.1 percent to about 0.5 percent by weight of carbon nanomaterial reinforcements.
- (original) The modified carbon fiber set forth in claim 1 wherein the carbon nanomaterial reinforcements comprise carbon nanotubes.
- (original) The modified carbon fiber set forth in claim 3 wherein the carbon nanotubes comprise multi-wall carbon nanotubes.
- (original) The modified carbon fiber set forth in claim 1 comprising decreased tensile modulus.

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- 6. (withdrawn) A method for making a modified, mesophase pitch-based carbon fiber comprising the steps of:
  - a. providing an anisotropic mesophase pitch;
  - b. heating the pitch to at least the softening temperature of the pitch;
  - c. dispersing carbon nanomaterials in the heated pitch in an amount ranging from about 0.01 percent to about 1.0 percent by weight;
  - d. heating the pitch to an extrusion temperature of about 20° to about 30°C
     above the softening point;
  - e. melt spinning a carbon nanomaterial-reinforced pitch fiber;
  - f. thermosetting the spun fiber; and
  - g. pyrolyzing the carbon nanomaterial-reinforced pitch fiber to form a carbon nanomaterial-reinforced pitch-based carbon fiber.
- 7. (withdrawn) The method set forth in claim 6 comprising dispersing carbon nanomaterials in the heated pitch in an amount ranging from about 0.1 percent to about 0.5 percent by weight.
- 8. (withdrawn) The method set forth in claim 6 wherein the carbon nanomaterials comprise carbon nanotubes.

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 (withdrawn) The method set forth in claim 8 wherein the carbon nanotubes comprise multi-wall carbon nanotubes.